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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/533,569	03/06/2006	Michiharu Tanaka	Q87581	4470	
65565 SUGHRUE-265	7590 07/06/2009 5550		EXAMINER		
	LVANIA AVE. NW		MARC, MCDIEUNEL		
WASHINGTON, DC 20037-3213			ART UNIT	PAPER NUMBER	
			3664		
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			07/06/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Commence		Applicat	Application No. Applicant(s)				
		10/533,5	69	TANAKA ET AL.			
Office Action Summary			r	Art Unit			
		MCDIEU	NEL MARC	3664			
Period fo	The MAILING DATE of this communicat r Reply	ion appears on th	e cover sheet with the o	correspondence ac	ddress		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply is specified above, the maximum statutor et or reply within the set or extended period for reply will, the ply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF T CFR 1.136(a). In no er ation. y period will apply and v by statute, cause the ap	HIS COMMUNICATION vent, however, may a reply be tir vill expire SIX (6) MONTHS from plication to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).	•		
Status							
2a)⊠	Responsive to communication(s) filed on This action is FINAL . 2b)[Since this application is in condition for a closed in accordance with the practice upon the condition of the closed in accordance with the practice upon the closed in the	This action is allowance excep	t for formal matters, pro		e merits is		
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) <u>2</u> is/are pending in the applicat 4a) Of the above claim(s) is/are was claim(s) is/are was claim(s) is/are allowed. Claim(s) <u>2</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction on Papers The specification is objected to by the Experimental contents are subjected to be subjected to by the Experimental contents are subjected to be subjected to by the Experimental contents are subjected to be subjec	vithdrawn from co					
_	The drawing(s) filed on <u>5/3/2005</u> is/are: Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	to the drawing(s) correction is requi	be held in abeyance. Sered if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C	, ,		
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	t (s) e of References Cited (PTO-892)		4) Interview Summary	· (PTO-413)			
2) Notic 3) Inforr	e of Draftsperson's Patent Drawing Review (PTO-s nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	948)	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

1. Claim 1 is cancelled and claim 2 is pending.

2. The rejection to claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over the

Background Art of the specification of this application Part 2 from pages 5-6 (hereinafter

Background) in view of Langford et al. (6650516 B2) is maintained.

Drawings

3. Figures 6 and 7 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective

Claim Rejections - 35 USC § 103

action in the next Office action. The objection to the drawings will not be held in abeyance.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over the Background Art of the specification of this application Part 2 from pages 5-6 (hereinafter Background) in view of Langford et al. (6650516 B2).

As per claim 1, Background teaches "As another prior art, one invention has been proposed as to opening operation of contacts of a relay apparatus when a power supply is turned OFF. A problem of the prior art 1 has been described. That is, if the contacts of the relay apparatus are opened under such a condition that a large current flows when the power supply is turned OFF, then an arc may be produced between the contacts. As a result, surfaces of the contacts become rough, and a failure happens to occur. In this prior art 2 (in pages 5-6) (in pages 5-6), in such a case that a driving operation is turned OFF under control of the power supply to the driving apparatus, if a current is larger than, or equal to a predetermined value, then the opening operations of the contacts are not carried out, and after the current has been decreased,

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the contacts are opened. Referring now to FIG. 7, a detailed explanation is made. The prior art 2

(in pages 5-6) (in pages 5-6) is constituted by a current value detecting means 82 and a control

unit 83. The current value detecting means 82 detects a contact current of a relay 81. When a

current detected by this current value detecting means 82 exceeds a predetermined reference

value, the control unit 83 locks a releasing operation of the relay contacts, and also, when a

current value detected by the current value detecting means 82 becomes smaller than, or equal to

the reference value, the control unit 83 executes the releasing operation of the relay contacts"

which equates to a control apparatus of an automatic machine comprising:, a driving apparatus

for supplying electric power of the power supply to a driving unit of the automatic machine via a

relay apparatus connected to the breaker, for controlling the driving apparatus, a current control

rectifying element connected to the relay apparatus, and a current controlling device for feed-

controlling the current control rectifying element after a contact of the relay apparatus has been

closed when supplying of the electric power to the driving unit is turned ON, and a current

controlling device for causing the current control rectifying element to be a non-feeding

condition before a contact of the relay apparatus is opened when supplying of the electric power

to the driving unit is turned OFF (see page 4, of the specification line 21 -- to -- page 5, line -22).

Background does not specifically teach a breaker connected to a power supply.

Langford in the other hand teaches a breaker connected to a power supply (see figs. 2, 4,

5 and 8).

It would have been obvious to one of ordinary skill in the art at the time of the invention

to modify the Background prior art 2 (in pages 5-6) at with the with the breaker that being

connected to a power supply by Langford, because this modification would have introduce the necessary breaker to the power supply, thereby improving the automatic machine as a whole.

Response to Arguments

- 7. As to the reference not teaching a controller for rectifying current of the current control rectifying element to be decreasing condition (see page 5, of the specification lines 3-10) and anon-feeding condition before a contact of the relay apparatus is opened when supplying of the electric power to the driving unit is turned off (see page 4, of the specification line 21 -- to -- page 5, line -22).
- 8. Applicant's arguments filed 4/16/2009 have been fully considered but they are not persuasive.
- 9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to MCDIEUNEL MARC whose telephone number is (571)272-

6964. The examiner can normally be reached on 6:30-5:00 Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Khoi Tran can be reached on (571) 272-6919. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/McDieunel Marc/

Examiner, Art Unit 3664

Monday, June 29, 2009

/KHOI TRAN/

Supervisory Patent Examiner, Art Unit 3664